

NOVEMBER/DECEMBER 2025

CECA64C — MOBILE COMPUTING

Time: Three hours

Maximum : 75 marks



SECTION A — (10 × 2 = 20 marks)

Answer ALL questions.

1. Write the benefits of Ad-hoc Networking.
2. Mention some examples for Location Aware Services.
3. Specify the advantages and disadvantages of SDMA.
4. Define the Digital Cellular Networks.
5. State the role of Unidirectional Broadcast Systems.
6. Write any two examples for Symmetrical Communication Services.
7. State the use of Dynamic Host Configuration Protocol.

8. Give a simple example for an Ad-hoc Network.
9. What are the features of Wireless Application Protocol?
10. Define: the Wireless Mark-up Language Script.

SECTION B — ($5 \times 5 = 25$ marks)

Answer ALL questions.

11. (a) Exhibit the Applications of Mobile Communications.

Or

- (b) Write a short on signal propagation.

12. (a) Enumerate the merits and demerits of GEO, LEO and MEO Satellites.

Or

- (b) Outline the concept of Digital Audio Broadcasting Technique.

13. (a) Narrate two different Transmission Technologies.

Or

- (b) Illustrate the System Architecture of IEEE 802.11.

14. (a) Summarize several Entities and terminology needed to understand Mobile IP.

Or

- (b) Briefly discuss on Tunneling.

15. (a) Compare WML with HTML.

Or

- (b) Explain the important Components of WML Script.

SECTION C — ($3 \times 10 = 30$ marks)

Answer any THREE questions.

16. Elucidate the various Multiplexing Techniques.
17. Describes the Architecture, Services, and Protocols of GSM.
18. Discuss about Wireless ATM and their Services.
19. Explain the following mechanisms in Mobile IP:
 - (a) Agent discovery and Registration
 - (b) Optimizations
20. Illustrate the Architecture of Wireless Telephony Application.

